



G05-0070-SEQ

SEQUENCE LISTING

<110> Takada Pharmaceutical Company Limited

<120> Antibody and its use

<130> G05-0070

<140> PCT/JP2004/007667

<141> 2004-05-27

<150> JP2003-151577

<151> 2003-05-28

<160> 20

<210> 1

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> immunogen

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<210> 2

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> immunogen

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Cys His Thr Val Gly Arg Ala Ala Gly Leu Leu Met Gly Leu
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<210> 3

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> immunogen

<400> 3

Cys Ala Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp
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<210> 4

<211> 23

<212> PRT

<213> Homo sapiens

<400> 4

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<210> 5

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<211> 30
 <212> PRT
 <213> Homo sapiens

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 <213> Rattus norvegicus

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 <213> Rattus norvegicus

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 <211> 23
 <212> PRT
 <213> Mus musculus

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 Ser Gly Leu Leu Met Gly Leu
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<210> 9
 <211> 30
 <212> PRT
 <213> Mus musculus

<400> 9
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 1 5 10 15
 Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Gln Trp
 20 25 30

<210> 10
 <211> 23
 <212> PRT
 <213> Sus scrofa

<400> 10
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 1 5 10 15
 Ala Gly Leu Leu Met Gly Leu

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<210> 11
 <211> 30
 <212> PRT
 <213> Sus scrofa

<400> 11
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 Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Met Trp
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<210> 12
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 <212> PRT
 <213> Artificial sequence

<220>
 <223> Biotin-labeled peptide

<220>
 <221> MOD_RES
 <222> 14
 <223> Xaa means biotin-labeled Cys modified with Biotin (Long Arm) Maleimide
 (Vector Laboratories).

<400> 12
 Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Xaa
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<210> 13
 <211> 14
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<220>
 <223> Biotin-labeled peptide

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 <223> Xaa means biotin-labeled Cys modified with Biotin (Long Arm) Maleimide
 (Vector Laboratories).

<400> 13
 Xaa His Thr Val Gly Arg Ala Ala Gly Leu Leu Met Gly Leu
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<210> 14
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<220>
 <223> Biotin-labeled peptide

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 <221> MOD_RES
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 <223> Xaa means biotin-labeled Cys modified with Biotin (Long Arm) Maleimide
 (Vector Laboratories).

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<400> 14

Xaa Ala Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp
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<210> 15

<211> 328

<212> PRT

<213> Homo sapiens

<400> 15

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 35 40 45
 Ala Val Gly Leu Ala Gly Asn Ser Ala Val Leu Tyr Val Leu Leu Arg
 50 55 60
 Ala Pro Arg Met Lys Thr Val Thr Asn Leu Phe Ile Leu Asn Leu Ala
 65 70 75 80
 Ile Ala Asp Glu Leu Phe Thr Leu Val Leu Pro Ile Asn Ile Ala Asp
 85 90 95
 Phe Leu Leu Arg Gln Trp Pro Phe Gly Glu Leu Met Cys Lys Leu Ile
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 Val Ala Ile Asp Gln Tyr Asn Thr Phe Ser Ser Leu Tyr Phe Leu Thr
 115 120 125
 Val Met Ser Ala Asp Arg Tyr Leu Val Val Leu Ala Thr Ala Glu Ser
 130 135 140
 Arg Arg Val Ala Gly Arg Thr Tyr Ser Ala Ala Arg Ala Val Ser Leu
 145 150 155 160
 Ala Val Trp Gly Ile Val Thr Leu Val Val Leu Pro Phe Ala Val Phe
 165 170 175
 Ala Arg Leu Asp Asp Glu Gln Gly Arg Arg Gln Cys Val Leu Val Phe
 180 185 190
 Pro Gln Pro Glu Ala Phe Trp Trp Arg Ala Ser Arg Leu Tyr Thr Leu
 195 200 205
 Val Leu Gly Phe Ala Ile Pro Val Ser Thr Ile Cys Val Leu Tyr Thr
 210 215 220
 Thr Leu Leu Cys Arg Leu His Ala Met Arg Leu Asp Ser His Ala Lys
 225 230 235 240
 Ala Leu Glu Arg Ala Lys Lys Arg Val Thr Phe Leu Val Val Ala Ile
 245 250 255
 Leu Ala Val Cys Leu Leu Cys Trp Thr Pro Tyr His Leu Ser Thr Val
 260 265 270
 Val Ala Leu Thr Thr Asp Leu Pro Gln Thr Pro Leu Val Ile Ala Ile
 275 280 285
 Ser Tyr Phe Ile Thr Ser Leu Ser Tyr Ala Asn Ser Cys Leu Asn Pro
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<210> 16

<211> 984

<212> DNA

<213> Homo sapiens

<400> 16

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 ccagttgtct acgcggtgat ctgcgccgtg ggtctggcgg gcaactccgc cgtgctgtac 180
 gtgttgctgc gggcgccccg catgaagacc gtcaccaacc tgttcatacct caacctggcc 240

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ttctccagcc	tctacttcct	caccgtcatg	agcgccgacc	gctacctggt	gggtgtggcc	420
actgcggagt	cgcgccgggt	ggccggccgc	acctacagcg	ccgcgcgcgc	ggtgagcctg	480
gccgtgtggg	ggatcgtcac	actcgtcgtg	ctgcccttcg	cagtcttcgc	ccggctagac	540
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cgcgcgagcc	gcctctacac	gctcgtgctg	ggcttcgcca	tccccgtgtc	caccatctgt	660
gtcctctata	ccaccctgct	gtgccggctg	catgccatgc	ggctggacag	ccacgccaag	720
gccctggagc	gcgccaagaa	gcgggtgacc	ttcctggtgg	tggcaatcct	ggcgggtgtg	780
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cagacgccgc	tggtcatcgc	tatctcctac	ttcatcacca	gcctgagcta	cgccaacagc	900
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<210> 17

<211> 333

<212> PRT

<213> Homo sapiens

<400> 17

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Pro	Ala	Val	Tyr	Ser	Gly	Ile	Cys	Ala	Val	Gly	Leu	Thr	Gly	Asn	Thr
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Asn	Val	Phe	Ile	Leu	Asn	Leu	Ala	Val	Ala	Asp	Gly	Leu	Phe	Thr	Leu
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Val	Leu	Pro	Val	Asn	Ile	Ala	Glu	His	Leu	Leu	Gln	Tyr	Trp	Pro	Phe
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Gly	Glu	Leu	Leu	Cys	Lys	Leu	Val	Leu	Ala	Val	Asp	His	Tyr	Asn	Ile
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			180					185					190		
Gln	Val	Pro	Ser	Cys	Gly	Leu	Ser	Phe	Pro	Trp	Pro	Glu	Gln	Val	Trp
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Phe	Lys	Ala	Ser	Arg	Val	Tyr	Thr	Leu	Val	Leu	Gly	Phe	Val	Leu	Pro
	210					215					220				
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225					230					235					240
Ala	Val	Arg	Leu	Arg	Ser	Gly	Ala	Lys	Ala	Leu	Gly	Lys	Ala	Arg	Arg
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Trp	Thr	Pro	Phe	His	Leu	Ala	Ser	Val	Val	Ala	Leu	Thr	Thr	Asp	Leu
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Ser	Tyr	Ala	Asn	Ser	Cys	Leu	Asn	Pro	Phe	Leu	Tyr	Ala	Phe	Leu	Asp
305					310					315					320
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<210> 18
 <211> 999
 <212> DNA
 <213> Homo sapiens

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 ctgccgttcc tctatgtgct cctgcccgcc gtgtactccg ggatctgtgc tgtggggctg 180
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 aacatcgcgg agcacctgct gcagtactgg cccttcgggg agctgctctg caagctgggtg 360
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<210> 19
 <211> 329
 <212> PRT
 <213> Rattus norvegicus

<400> 19
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 35 40 45
 Ile Cys Ala Val Gly Leu Ala Gly Asn Ser Ala Val Leu Tyr Val Leu
 50 55 60
 Leu Arg Thr Pro Arg Met Lys Thr Val Thr Asn Val Phe Ile Leu Asn
 65 70 75 80
 Leu Ala Ile Ala Asp Glu Leu Phe Thr Leu Val Leu Pro Ile Asn Ile
 85 90 95
 Ala Asp Phe Leu Leu Arg Arg Trp Pro Phe Gly Glu Val Met Cys Lys
 100 105 110
 Leu Ile Val Ala Val Asp Gln Tyr Asn Thr Phe Ser Ser Leu Tyr Phe
 115 120 125
 Leu Ala Val Met Ser Ala Asp Arg Tyr Leu Val Val Leu Ala Thr Ala
 130 135 140
 Glu Ser Arg Arg Val Ser Gly Arg Thr Tyr Gly Ala Ala Arg Ala Val
 145 150 155 160
 Ser Leu Ala Val Trp Ala Leu Val Thr Leu Val Val Leu Pro Phe Ala
 165 170 175
 Val Phe Ala Arg Leu Asp Glu Glu Gln Gly Arg Arg Gln Cys Val Leu
 180 185 190
 Val Phe Pro Gln Pro Glu Ala Phe Trp Trp Arg Ala Ser Arg Leu Tyr
 195 200 205
 Thr Leu Val Leu Gly Phe Ala Ile Pro Val Ser Thr Ile Cys Ala Leu
 210 215 220
 Tyr Ile Thr Leu Leu Cys Arg Leu Arg Ala Ile Gln Leu Asp Ser His
 225 230 235 240
 Ala Lys Ala Leu Asp Arg Ala Lys Lys Arg Val Thr Leu Leu Val Val
 245 250 255
 Ala Ile Leu Ala Val Cys Leu Leu Cys Trp Thr Pro Tyr His Leu Ser

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Thr	Ile	Val	Ala	Leu	Thr	Thr	Asp	Leu	Pro	Gln	Thr	Pro	Leu	Val	Ile		
		275					280					285					
Gly	Ile	Ser	Tyr	Phe	Ile	Thr	Ser	Leu	Ser	Tyr	Ala	Asn	Ser	Cys	Leu		
	290					295					300						
Asn	Pro	Phe	Leu	Tyr	Ala	Phe	Leu	Asp	Asp	Ser	Phe	Arg	Arg	Ser	Leu		
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<210> 20

<211> 987

<212> DNA

<213> Rattus norvegicus

<400> 20

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aacagctgcc	tcaacccttt	cctctatgcc	ttcctggacg	acagcttccg	caggagcctg	960
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